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Introduction

Brunel is very much setup to reprocess existing DSTs, but Boole was never engineered for that, and you need to do some work.

Prerequisites: SIM/XDST/XDIGI

The only file types which contain the information to re-run boole are SIM, XDIGI and XDST, the X stands for "extended" and means additional information is copied from the SIM to the DIGI. Other file formats do not contain the required information, and so you would need to restart a production.

Example files:

You can check if what you've got works by using these files:

```
from GaudiConf import IOHelper
#original data file
#IOHelper().inputFiles(["root://s35-02.grid.sara.nl:1094/pnfs/grid.sara.nl/data/lhcb/MC/Upgrade/X

#modified data file with a load of both Boole and Rec entries on it, completely broken because th
#IOHelper().inputFiles(["root://ccdcaccli039.in2p3.fr:1094/pnfs/in2p3.fr/data/lhcb/user/t/thead/38

#example SIM file
from PRConfig import TestFileDB
#TestFileDB.test_file_db["boole.boole-mc11"].run()
```

Step 1: Cleaning your XDST

In your first job you need to remove everything that Brunel and Boole added to your XDST. To do that, run a job over each file which removes the rubbish, and writes a new file.

```
SetupProject #anything... any recent version of LHCb software will work!
```

gaurdirun over your files with options like:

```
from Gaudi.Configuration import *
from Configurables import LHCBApp
from Configurables import EventNodeKiller

enk=EventNodeKiller("Reset_to_XSIM")
enk.Nodes=[
    #added by Brunel:
    "/Event/Trigger",
    "/Event/Rich",
    "/Event/Calo",
    "/Event/Muon",
    "/Event/Other",
    "/Event/Rec",
    "/Event/pRec",
    #added by Boole
    "/Event/Link/Raw",
    "/Event/DAQ",
    "/Event/pSim/Rich/DigitSummaries",
    "/Event/MC/TrackInfo",
    "/Event/MC/Muon",
    "/Event/MC/DigiHeader",
    #not always there, depends on the DataType and format
    "/Event/Link/Trig",
    "/Event/MC/Rich/DigitSummaries",
```


Step 3: Rerunning Boole

Find the exact options used to create the first file, edit them for what it was you needed to change. Don't forget the very important DDDDB, CondDB and Simulation flags needed. You can find most of this information from the book-keeping, which might point you to files in AppConfig where the options for the processing pretty much always sit.

-- RobLambert - 06 Mar 2014

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